

CLAIMS

1. A device for monitoring an electric overhead line, the device being an independently operating real time multisensor for mounting in a position on a line span, with a built-in transmitter for transmitting sensor signals to a remote central, from built-in sensors for sensing at least one parameter in a parameter group that comprises angle of inclination, line sag increase, wind speed, wind direction, quality/stability of line current, line temperature and air temperature, characterized in that the multisensor further comprises a camera for real time image monitoring of the line and its surroundings, the camera further being operative to present at least one of said parameters visually as a part of the camera image, the camera image being transmitted as a sensor signal in real time to the central.
- 15 2. The device of claim 1, characterized in that the multisensor further comprises a laser range finder for direct measurement of distance to ground right therebelow, said distance being included in said parameter group, and being presentable in the camera image that is transmitted.
- 20 3. The device of claim 1, characterized in that the multisensor further comprises bimetallic temperature probes, mercury inclination switches, ball relays, camera, wind gauge, laser range finder and a measuring transformer, for sensing said parameters and for optional display in the camera image that is transmitted.
- 25 4. The device of claim 1, characterized in that the multisensor is equipped with circuitry for providing a trigger function for transmitting an alarm signal when pre-set threshold values of temperature or others among said parameters are exceeded.
- 30 5. The device of claim 1, characterized in that the multisensor comprises a current transformer for fetching operating power from the overhead line itself.

6. The device of claim 1,
characterized in that the multisensor comprises a system of solar cells
and battery for providing operating power.

5 7. The device of claim 1,
characterized in that the multisensor or a part thereof is shaped as two
semi-cylinders hinged to each other, for mounting by folding the semi-cylinders
together round the line.

10 8. The device of claim 1,
characterized in that the outer surface thereof is equipped with visible
information/advertising.

9. The device of claim 1,
15 characterized in that the multisensor comprises a receiver for control
signals from the central.

10. The device of claim 1,
characterized in that the transmitter is a radio transmitter.

20 11. The device of claim 1,
characterized in that the transmitter is connected to the power line
itself, in order to use the power line as a transmission medium to the central.